

ABSTRACT OF THE DISCLOSURE

A method, system, and apparatus for controlling the temperature within a remotely located enclosure that contains temperature sensitive equipment is provided. For some embodiments, the system includes an array of thermoelectric cooling (TEC) devices that act as an active cooling device and an active heating device. The system may also include a temperature controller that receives signals from a temperature sensor located at or near the temperature sensitive equipment. The controller may be configured to supply DC power to the thermoelectric coupling devices based on the output signal of the temperature sensor. The polarity of the DC power can be reversed by the controller in order to cause the thermoelectric device to heat or to cool the enclosure. The system also contains a passive cooling device. The system includes an independent electrical power source with a battery and solar cell to supply power to the temperature control devices and the equipment contained in the enclosure.

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